

MAEAQPLGLSKGPTWPELLGSNAWAGLLNPLNDE
 LRELLRC.GDFCQVYDTFINDQNSSYCGSSRYGKA
 DLLHKTAFFGGADRFDVVAYLYATAKVSVPEAFLLK
 SRSREKWDRESNWIGYVVVVSNDETSRVAGRRREVYV
 WRGTCTRDYEWVDVLGAQLESAHPLRLRTQTTHVEKV
 ENEEKKS IHKSSWYDCFNINLLGSASKDKGGSDD
 DDDPKVMQGWMTIYTSEDPKSPFTKLSARTQLQTK
 LKQLMTKYKDETL SITFAGHSLGATLSVVSAFDIVE
 NLTTEIPVTAVVFGCPKVGNKKFQQLFDSYPNLNVL
 HVRNVIDLIPLYPVKLMGYVNI GIELEIDS RKSTFL
 KDSKNPSDWHNLQAILHVVS GWHGVKGFEKVVN KRS
 VALV NKSCDFLKEECLVPPAWVVQNKGMVLN KDGE
 WVLAPEEDPTPEFD

FIG.1

```

1                                     50
carlip .....MAAE AQPLGLSKPG PTWPELLGSN AWAGLLNPLN DELRELLLRC
arlip1 MKRKKKEEEE EKLIVTREFA KRWRLSGQN HKKGYLQPLD QQLREYIIHY
ipolip .....MSGIA KRWKVLGSD MWEGLEPLD SDLRRYLIHY
arlip1 MTAEDIRRRD KKTEEERRLR DTHRKIGED DWAGLMDPMD PILRELLTRY

251                                     100
carlip GDFCDVTYDT FINDQNSYSC GSSRYGKADL LHKTAFPGGA D..RFDVWAV
arlip1 GEMAGAGYDT FNINTESQFA GASTYSRKDF FAKVGLEIAH PYTKYKVTKF
ipolip GTMVSPATDS FINEAASKNV GLPRYARRNL LANCGLVKGN PF.KYEVTKY
arlip1 GEMAGACYDA FDFDPASKYC GTSRFRTRLEF FDSLGMIDSG ....YEVARY

101                                     150
carlip LYATAKVSPV .EAFLLKSRS REKIDRESNW IGYVWVSND ETSRVA.GRRE
arlip1 IYATSDIHVP .ESFLLFPIS REGMSKESNW NGYVAVITDQ .GTALLGRRD
ipolip FYAPSTIPLP DEGYNVRATR ADAVLKESNW NGYVAVATDE .GKVALGRRD
arlip1 LYATSNINLP ..NFFSKSRW SKVMSKNANW NGYVAVSDDE TSRNRLGRRD

151                                     200
carlip VYVWVRGT CR DYEWDVLGA QLESAPLLR TQQTTHVEKV ENEEKKSIIK
arlip1 IVVSWRGSVQ PLEWVEDFEF GLVNAI.....
ipolip ILIVWRGTIR KSENNENLTF WFKAP.....
arlip1 IATAWRGTVT KLEWIADLKD YLKPVT.....

201                                     250
carlip SSWYDCFNIN LLGSASKDKG KGSDDDDDD PKVMOGMTI YISEDPKSPF
arlip1 ..... KIFGERNDQ. VQIHOGWYSI YMSQERSPF
ipolip ..... LFFGQSDP. L.VHKGYDM YTTINQDSQL
arlip1 ..... ENKIRCPDPA VKVESGFLDL YTDKDTTCKF

251                                     300
carlip TKLSARTQLQ TKLKQIMTKY KDET...LSI TFAGHSLGAT LSVVSAFDIV
arlip1 TKTNRDQVL REVGRLLLEKY KDEE...VSI TIOGHSLGAA LATLSAIDIV
ipolip NEKSARQOIR EEVARLVELY KDEE...ISI TVTGHSLGSS MATLNAVOLA
arlip1 ARFSARQOIL TEVKRLVEEH GDDSDLSI TVTGHSLGGA LAILSAIDIA

```

FIG.2A

301 350
 carlip ENLTTE....IPVTAV VFGGPKVGNK KFOQLFDSYP NLNVLHVRNV
 arlip1 ANGYNRPKSR PDKSCPVTAF VFASPRVGDS DFRKLFSGLE DIRVLRTRNL
 ipolip ANPINN....NKNILVTAF LYASPKVGDE NFKNVISNQQ NLRAIRISDV
 arlipi EMRLNR..SK KGVIPVTVL TYGGRVGNV RFRERMEEL. GVKVMRVNV

351 400
 carlip IDLIPLYPVK LMG.....YVNIETLEI DSRKSTFLKD
 arlip1 PDVIPIYPPI G.....YSEVGDEFPI DTRKSPYMKs
 ipolip NDIVTAVPPF GWKEGDNTAI L.....YGDVGVLVI DSKKSHYLP
 arlipi HDVVPKSPGL FLNESRPHAL MKIAEGLPWC YSHVGEELAL DHQNSPFLKP

401 450
 carlip SKNPSDWHNL QAILHVVSOW HGV.KGE.FK VVNKRSVALV NKSCDFLKEE
 arlip1 PGNLATFHCL EGYLHGVAGT QGTNKADLFR LDVERAIGLV NKSVDELKDE
 ipolip DFPNLSTHDL MLYMHADGY QGSOGG..FE RQEDFDLAKV NKYG DYLKAE
 arlipi SVDVSTAHL EAMLHLLDGY HG..KGERFV LSSGRDHALV NKASDFLKEH

451 500
 carlip CLVPPAMVV ONKGMVLNKD GEMVAPP..EEDPTPEFD
 arlip1 CMVPGKRVL KNGGMAQQDD GSWELVDH.E IDDNEIDLDF.
 ipolip YPIPIGWFI KDKGMVQQDD GNYILDDH.E VDKTF.....
 arlipi LQIPPFWRQD ANKGMVRNSE GRWIAERLR FEDHSPDIH HHLSQLRLDH

501
 carlip ..
 arlip1 ..
 ipolip
 arlipi PC

FIG.2B

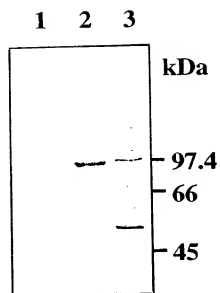


FIG.3

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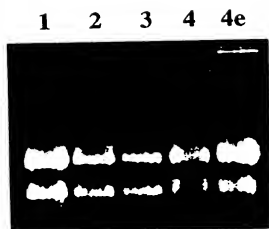


FIG.4A

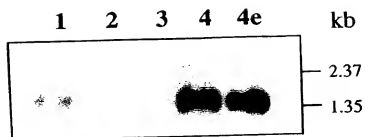


FIG.4B

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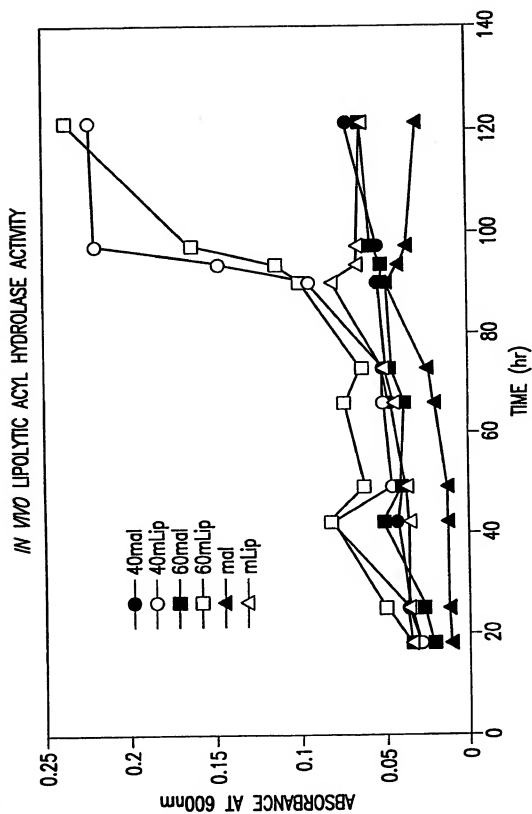


FIG.5

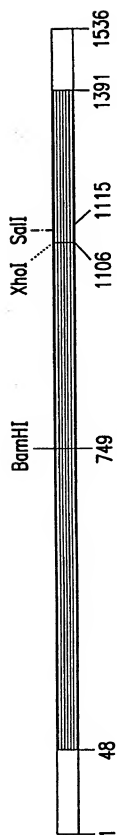


FIG. 6A

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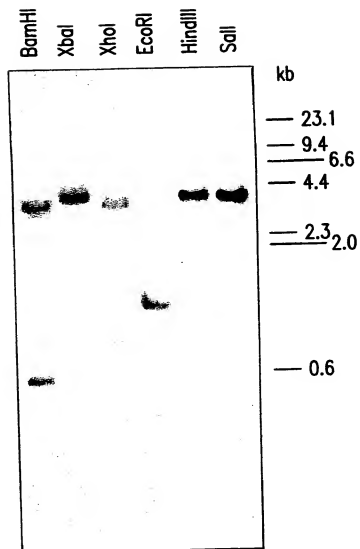


FIG.6B

GCGACGAGCAATTGCAAAACTGCTTACACCACTCAAAACTATTCCAACTGGCTGCAGAAAGCCCAACCTTTAGGCTCTCT
 AAAGCCGGCCCAACATAGGCTCGAATCTCTGGGTCCAACGCTTGGCGGGCTACTAAACCCGCTCAACGATGAGCTC
 CGTAGCTCTCTACGCTCGGGGACTTCTGCCAGGTGACATACGACACCTTCATAAACGACCAACACTCGTCTCTACT
 GCGGACGACCGCTCTACGGGAAGCGGACCTACTTCATAAGACCGCTTCCCGGGGGGCGCAGACCGGTTTGAGCTGGT
 GGCCTACTTGTAGCGCACTGCGAAGGTCAGCGTCCAGAGGCGTTTCTGCTGAAGTCGAGGTCGAGGGAGAAAGTGGGAT
 AGGGAATCGAATTTGGATTGGGTATGTGAGGATTATGAGTGGGTGATGTTCTTGGTCTCAACTTGAAGTCTGCTCATCTTTGTT
 TGGTGTGAGAGGGACTTTGTAGGATTATGAGTGGGTGATGAGTGGGTGCTGAATGACGAGACGAGTGGGTGGCGGACGAAGGAGGTGTATG
 ACGCACTCAACAACTACTCACTGTTGAAAGGTGGAAATGAGGAAAGAGAGCATTCATAAATCAAGTTGGTACGAC
 TGTTCATATCAACTACTAGTTCCGCGTCCAAAGCAAGAAAGGAAGCGACGACGATGATGACGACCCCA
 AAGTGATCAAGGTTGGATGACAAATACACATCGGAGGATCCCAATCACCCTTCACAAAACCTAAGTCAAGAACACA
 ACTCAGACCAAACTCAAACTAATGACAAAATACAAAGACGAACCCCTAAGCATTAACATTCGCGGTCACAGCTA
 TCGGCTGCCCCAAAGTAGECAACAAAAATTCACAACTCTTCGACTGCTACCCAAACCTAAATGTCTCATGTAAAG
 GAATGTATCGACCTGATCCCTCTGTATCCGCTGAACTCATGGGTTAGTGAACATAGGAATCGAGCTGGAGATCGAC
 TCGAGGAAGTCGACCTTTCTAAAGGACTCGAAAAACCCGAGTGATGGCATAAATTCGAAGCAATATTGTCATGTTGTAA
 GTGGTTGGCATGGGTTAAGGGGAGTTTAAGGTTGTAAATAAGAGAAGTTTGCATTGGTTAATTAAGTCATGTGATTT
 TCTTAAGGAAGAATGTTTGGTCTCCAGCTTTGGTGGGTTGTGCAAGAACAAAGGGATGGTTTGAATAAGGATGGTGAG
 TGGGTTTGGCTCTCTGAGGAAGATCCTACTCCTGAAATTTGATGATATAATTCATCATGTTTTATATATATATATAA
 ATTTACTAAATTACATGACAAATTTATGGGACTAAGTTACTTATTTATATGTTTATATATTTGAATGTGTTTTAAG
 TTACATAAAATTGCAATTAGTTTTTAAAAA

—————noncoding region of cDNA clone

FIG. 7

Met Ala Ala Glu Ala Gln Pro Leu Gly Leu Ser Lys Pro Gly Pro Thr Trp Pro Glu Leu 20
 1 10
 Leu Gly Ser Asn Ala Trp Ala Gly Leu Leu Asn Pro Leu Asn Asp Glu Leu Arg Glu Leu 40
 21 25 30 35
 Leu Leu Arg Cys Gly Asp Phe Cys Gln Val Thr Tyr Asp Thr Phe Ile Asn Asp Gln Asn 60
 41 45 50 55
 Ser Ser Tyr Cys Ser Ser Arg Tyr Gly Lys Ala Asp Leu Leu His Lys Thr Ala Phe 80
 61 65 70 75
 Pro Gly Gly Ala Asp Arg Phe Asp Val Val Ala Tyr Leu Tyr Ala Thr Ala Lys Val Ser 100
 81 85 90 95
 Val Pro Glu Ala Phe Leu Leu Lys Ser Arg Ser Arg Glu Lys Trp Asp Arg Glu Ser Asn 120
 101 105 110 115
 Trp Ile Gly Tyr Val Val Ser Asn Asp Glu Thr Ser Arg Val Ala Gly Arg Arg Glu 140
 121 125 130 135
 Val Tyr Val Val Trp Arg Gly Thr Cys Arg Asp Tyr Glu Trp Val Asp Val Leu Gly Ala 160
 141 145 150 155
 Gln Leu Glu Ser Ala His Pro Leu Leu Arg Thr Gln Gln Thr Thr His Val Glu Lys Val 180
 161 165 170 175
 Glu Asn Glu Glu Lys Lys Ser Ile His Lys Ser Ser Trp Tyr Asp Cys Phe Asn Ile Asn 200
 181 185 190 195
 Leu Leu Gly Ser Ala Ser Lys Asp Lys Gly Lys Gly Ser Asp Asp Asp Asp Asp 220
 201 205 210 215

FIG.8A

Pro Lys Val Met Gln Gly Trp Met Thr Ile Tyr Thr Ser Glu Asp Pro Lys Ser Pro Phe
 221 225 230 240
 Thr Lys Leu Ser Ala Arg Thr Gln Leu Gln Thr Lys Leu Lys Gln Leu Met Thr Lys Tyr
 241 245 250 255 260
 Lys Asp Glu Thr Leu Ser Ile Thr Phe Ala Gly His Ser Leu Gly Ala Thr Leu Ser Val
 261 265 270 275 280
 Val Ser Ala Phe Asp Ile Val Glu Asn Leu Thr Thr Glu Ile Pro Val Thr Ala Val Val
 281 285 290 295 300
 Phe Gly Cys Pro Lys Val Gly Asn Lys Lys Phe Gln Gln Leu Phe Asp Ser Tyr Pro Asn
 301 305 310 315 320
 Leu Asn Val Leu His Val Arg Asn Val Ile Asp Leu Ile Pro Leu Tyr Pro Val Lys Leu
 321 325 330 335 340
 Met Gly Tyr Val Asn Ile Gly Ile Glu Ile Asp Ser Arg Lys Ser Thr Phe Leu
 341 345 350 355 360
 Lys Asp Ser Lys Asn Pro Ser Asp Trp His Asn Leu Gln Ala Ile Leu His Val Val Ser
 361 365 370 375 380
 Gly Trp His Gly Val Lys Gly Glu Phe Lys Val Val Asn Lys Arg Ser Val Ala Leu Val
 381 385 390 395 400
 Asn Lys Ser Cys Asp Phe Leu Lys Glu Glu Cys Leu Val Pro Pro Ala Trp Trp Val Val
 401 405 410 415 420
 Gln Asn Lys Gly Met Val Leu Asn Lys Asp Gly Glu Trp Val Leu Ala Pro Pro Glu Glu
 421 425 430 435 440
 Asp Pro Thr Pro Glu Phe Asp
 441 445 449

FIG.8B

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	Stage II flower		mixed leaves (young and old)	
Ethylene treatment	-	+	-	+



FIG.9A

	Stage II flower		mixed leaves (young and old)	
Ethylene treatment	-	+	-	+



FIG.9B

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(PCR primer-1)
 CTCTAGACTATGAGTGGGTGGATGTTTATAGTGCTGTCCTGATTCAGCTGACTCTCTCTTCATCTCTAAATCTCTCAA
 D Y E W V D V L G A R P D S A D S L L H P K S L Q

AAAGCATTAAACAAGAAGCATGAGGATGAGGACGAGGAGGATGAGATCAAAGTAAATGGATGGGTGAGCTTAGAT
 K G I N N K N D E D E D E D E D E I K V M D G W L K I

CTAGCTCTCAAGTACCCGAAGTGTCTTTTCAGGAGCTAAGTGCAGAGAAACAATTCAGCAAAAGATTGAAAAGTTAA
 Y V S S N P K S S F T R L S A R E Q L Q A K I E K L R

GAAATGAGTATAAGATGAGAAATTCAGCATAACTTTTACAGGCGATAGTCTTGCTGCTAGCTAGCTGTTTTCAGCTTCA
 N E Y K D E N L S **I T F T G H S L G A** S L A V L A S

TTTGATGTGGTTGAAAATGGTGTGCCAGTTGATATTCACAGTATCTGCAATTGTATTTGGTAGTCCACAAGTTGGGAATAA
 F D V V E N G V P V D I P V S A I V F G S P Q V G N K

GGCATTCATGAAGAATCAAGAAATTCATAAATTCATGATATCTTACATGTTAAGAACAAAGATTGATCTCATTTACCCCTT
 A F N E R I K K F S N L N I L H V K N K I D L I T L Y

ACCAAGTGTCTGTGTTGGGTATGTGAATTCAGgtattgaaggaagaaagatcattacaattttgagcgtagatttctcatat
 P S A L F G Y V N S G

cgtcacactcaactaactattattatgagaagagtcactttcttgtgaaaaaattgaatcaacttttggaaataaatag
 tagttgagtgaccatatgagaaatcaacactctactaactttatgctataagagaatagggttaaggccatattgtttata

ctgtctgttcaattagaatcataaaagtattactagttaaatttgactacaacttcttatgtagacatgaataaataaatc
 ctacataaataagatttctcacacatttaattgattcttcaacagGTATAGAGCTAGTCATGATAGCAGAAAGTCTCGA
 I E L V I D S R K S P S

(PCR primer-3)
 GTTTAAGGATTCAAAAGACATGGGCGACTGGCACAACCTCCAA
 L K D S K D M G D W H N L

FIG.10

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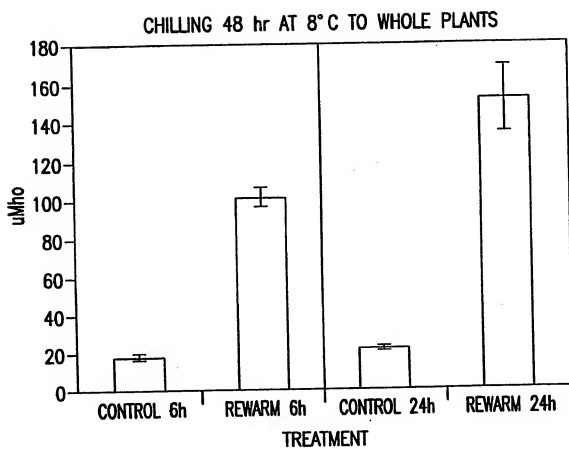


FIG. 11

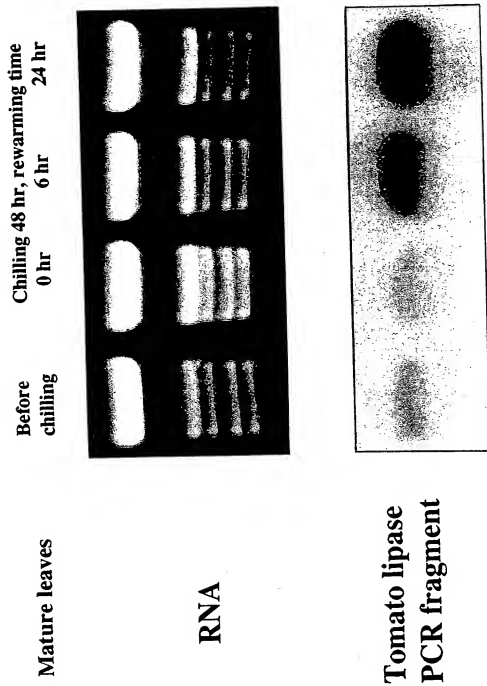


FIG.12

1/1 CGG GTC GAC CCA CGC GTC CGC GAA AAC GCT TCC GAC TAC GAG GTT GTA AAC TTC CTC TAC GCC ACA GCT CGT GTT TCT CTC CCC GAA GGT
 R V D P R V R E N A 31/11
 91/31 TTG CTT CTC CAA TCA CAA TCA AGA GAT TCT TGG GAC CGT GAG TCT AAC TGG TTT GGC TAC ATT GCT GTC AGC TCT GAT GAA CGG TCT AAG
 L L Q S Q S R D S W D R E S N W F G Y I A 121/41
 181/61 GCT TTA GGA CGC CGT GAG ATC TAT ATA GCT TTG AGA GGA ACG AGC AGG AAC TAT GAG TGG GTC AAT GTT TTG GGT GCT AGG CCA ACT TCA
 A L G R R E I Y I A L R G T S R N Y E W V N 211/71
 271/91 GCT GAC CCC TTG CTG CAC GGA CCC GAG CAG GAT GGT TCT GGT GGT GTA GTT GAA GGT AGC ACT TTT GAT AGT GAC AGT GAA GAT GAA GAA
 A D P L L H G P E Q D G S G G V V E G T T F D S D S E D E E 301/101
 361/121 GGT TGT AAG GTG ATG CTC GGG TGG CTC ACA ATC TAT ACT TCT AAT CAC CCC GAA TCG AAA TTC ACT AAG CTG AGT CTA CGG TCA CAG TTG
 G C K V M L G W L T I Y T S N H P E S K F T K L S L R S Q L 391/131
 451/151 TTA GCC AAG ATC AAG GAG CTT CTG TTG AAG TAT AAG GAC GAG AAA CCG AGC AGT TTG TTG ACT GGA CAT AGC TTG GGA CCT ACA GAG GCT
 L A K I K E L L L K Y K D E K P S I V L T G H S L G A T E A 481/161
 541/181 GTT CTG GCC GCT TAT GAT ATA GCT GAG AAC GGT TCC AGT GAT GAT GTT CGG GTC ACT GCT ATA GTC TTT GGT TGT CCA CAG GTA GGA AAC
 V L A A A Y D I A E N G S D D V P V T A I V F G C P Q V G N 571/191
 631/211 AAG GAG TTC AGA GAC GAA GTA ATG AGT CAC AAG AAC TTA AAG ATC CTC CAT GTA AGG AAC ACG ATT GAT CTC TTA ACT CGA TAC CCA GGG
 K E F R D E V M S H K N L K I L H V R N T I D L L T R Y P G 601/201
 691/231

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FIG.13A

721/241 TTA GGG TAT GTG GAC ATA GGA ATA AAC TTT GTG ATC GAT ACA AAG AAG TCA CCG TTC CTA AGC GAT TCA AGG AAT CCA GGG GAT
 GGA CTT TTA GGG TAT GTG GAC ATA GGA ATA AAC TTT GTG ATC GAT ACA AAG AAG TCA CCG TTC CTA AGC GAT TCA AGG AAT CCA GGG GAT
 G L L G Y V D I G I N F V I D T K K S P F L S D S R N P G D
 811/271 AAT CTT CAG GCG ATG TTA CAT GTT GTA GCT GGA TGG AAT GGG AAG AAA GGA GAG TTT AAA CTG ATG GTT AAG AGA AGT ATT GCA
 TGG CAT N L Q A M L H V V A G W N G K K G E F K L M V K R S I A
 W H N L Q A M L H V V A G W N G K K G E F K L M V K R S I A
 901/301 TTA GTG AAC AAG TCA TGC GAG TTC TTG AAA GCT GAG TGT TTG GTG CCA GGA TCT TGG TGG GTA GAG AAG AAC AAA GGA CTG ATC AAG AAC
 TTA GTG AAC AAG TCA TGC GAG TTC TTG AAA GCT GAG TGT TTG GTG CCA GGA TCT TGG TGG GTA GAG AAG AAC AAA GGA CTG ATC AAG AAC
 L V N K S C E F L K A E C L V P G S W W V E K N K G L I K N
 991/331 GAA GAT GGT GAA TGG GTT CTT GCT CCC GTT GAA GAA GAA CCT GTA CCT GAA TTC TAA ATT GTA TTT CTG TAT TTT TCT CTA AGG TCA TGA
 E D G E W V L A P V E E E P V P E F *
 1081 TAA ATC AAC AAT AAG CAG TTC AAC TAT GTG ATG AAA AGA CCC AAG TTA TTA TAT TGA TAT GAG TTT ATG AGA TAA AAA AAA AAA AAA
 1111
 1141
 1165

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Note: The identity of nucleotides indicated in lower case needs to be confirmed.

FIG.13B

Sequence of *Aradopsis thaliana* senescence lipase

ATGACGGCGGAAGATATTGCGCGCGAGATAAAAAACCGAAGAAGAAAGACTAAGAG
 M T A E D I R R R D K K T E E E R R L R
 ACACGTGGCGTAAGATCCAAGGAGAAGACGATTGGGCGGGTTAATGGATCCAATGGATCCA
 D T T W R K I Q G E D D W A G L M D P M D P
 ATTTAGATCGGAGCTAATCCGTTACGGCGAAATGGCTCAAGCTTGTACGACGCTTTCGAT
 I L R S E L I R Y G E M A Q A C Y D A F D
 TTCGATCCCGCTTCCAAATACTGCGGCACCTCCAGGTTACGCGACTCGAGTTCCTCGATTCTC
 F D P A S K Y C G T S R F T R L E F F D S
 TCGGAATGATCGATTCCGGTTACGAGGTGGCGGTTACCTCTACGCGACGTCGAACATCAATC
 L G M I D S G Y E V A R Y L Y A T S N I N
 TCCCGAATCTTCTCTCGAAATCGCGTGGTCTAAAGTCTGGAGCAAAAACGCTAATTTGGATGG
 L P N F F S K S R W S K V W S K N A N W M
 GATACGTCCGCGTTTCAGACGACGAAACGTCTCGTAACCGACTCGGCCCGCGTGATATCGCGA
 G Y V A V S D D E T S R N R L G R D I A
 TTGCGTGGAGAGGAACCGTTACGAAACTTGAATGGATCGCGGATCTAAAGGATTATTTAAAA
 I A W R G T V T K L E W I A D L K D Y L K
 CCGGTAACCGAAAACAGATCCGATGCCCGACCCGGCGTTAAAGTCAAGTCCGGATTCTTA
 P V T E N K I R C P D P A V K V E S G F L
 GATCTCTACACTGACAAAGACACAACCTGCAAATTCGCGAGATTCTCAGCGCGTGAACAGATT
 D L Y T D K D T T C K F A R F S A R E Q I
 TTAACGGAGGTGAAACCGTTAGTGGAAGAACCGGCGACGACGATGATCCGATTTAAGCAT
 L T E V K R L V E E H G D D D D S D L S
 CACCGTGACGGGACACAGTCTCGGCGGCGGTTAGCGATATTAAGCGCTACGATATAGCGG
 A L A I L S A Y D I A
 AGATGAGATTGAATCGGAGTAAGAAAGGAAAGTGATTCCGGTGACGGTGTGACATACGGA
 E M R L G L N R S K K G K V I P V T V L T Y G
 GGACCGAGAGATTGGGAACGTTAGGTTAGGGAGAGGATGGAGGAATTTGGGAGTGAAAGTGAT
 G P R V G N V R F R E R M E E L G V K V M
 GAGAGTAGTGAATGTTACGACGTGGTCCCAAGTCGCCGGGATTGTTTGAACGAGAGTAG
 R V V N V H D V V P K S P G L F L N E S R
 ACCTCAGCGCTGATGAAGATAGCGGAGGGGTGCCGTGGTGTATAGCCACGTGGGGGAGG
 P H A L M K I A E G L P W C Y S H V G E
 AGCTGGCGTTGGATCATCAGAACTCGCGGTTTCTTAAACCTTCGTTGATGTTTCTACTGCTCA
 E L A L D H Q N S P F L K P S V D V S T A H
 TAATCTTGAAGCTATGCTTCATTACTTGACGGGTATCATGAAAAGGAGAGAGATTGTGCT
 N L E A M L H L L D G Y H G K G E R F V L
 GTCGAGTGGGAGACCATGCGCTAGTGAACAAAGCGTCGGACTTTTGAAGAGCATTTAC
 S S G R D H A L V N K A S D F L K E H L
 AAATTCACCGTTTGGCGTCAAGACGCGAATAAAGGAATGGTTCGGAACAGTGAAGGTGCT
 Q I P P F W R Q D A N K G M V R N S E G R
 TGGATTCAAGCCGAGCGTCTCCGTTTGGAGGATCATCAITTCCTGATATCCACCACCATCTCT
 W I Q A E R L R F E D H H S P D I H H H L
 CTCAGCTCCGCTTGATCATCTTGTAA
 S Q L R L D H P C

FIG.14

Northern Blot of Aging *Arabidopsis thaliana* Leaf Tissue

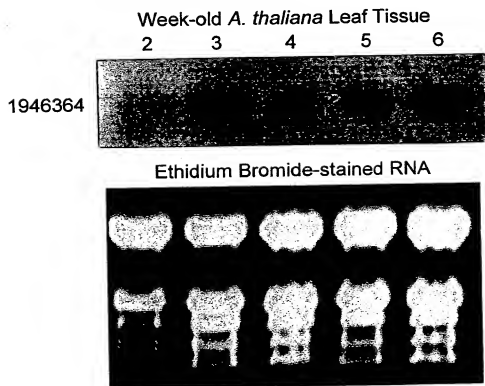


FIG.15

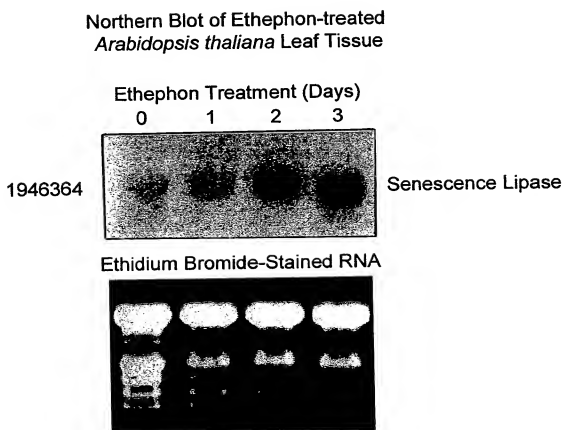
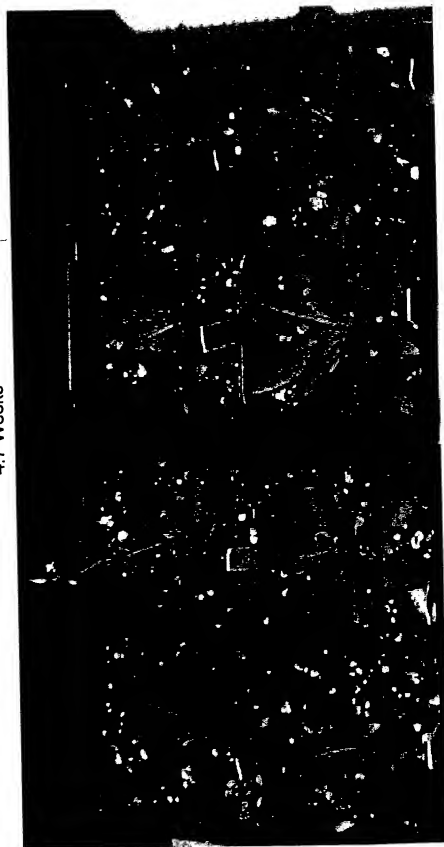


FIG.16

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4.7 Weeks



Wild-Type

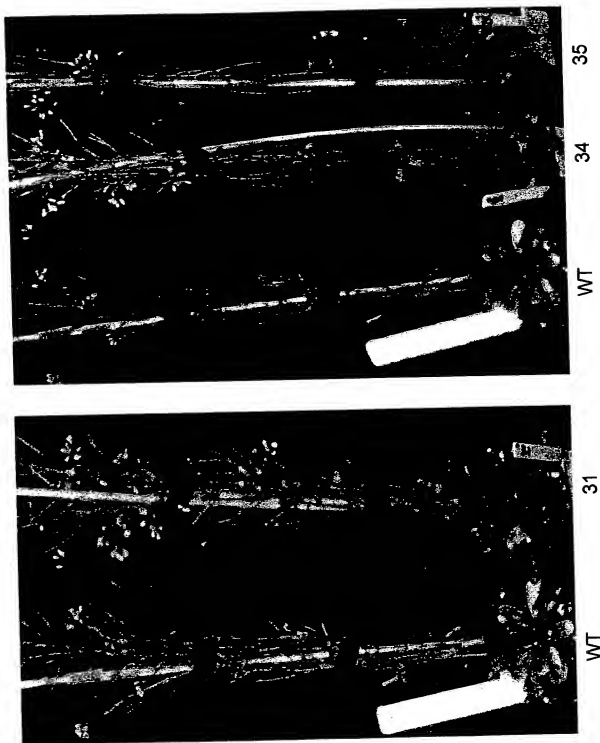
α -Lipase # 30

FIG.17

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6.3 Weeks



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FIG. 18

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7 Weeks



Wild-Type

α -Lipase #9

FIG.19

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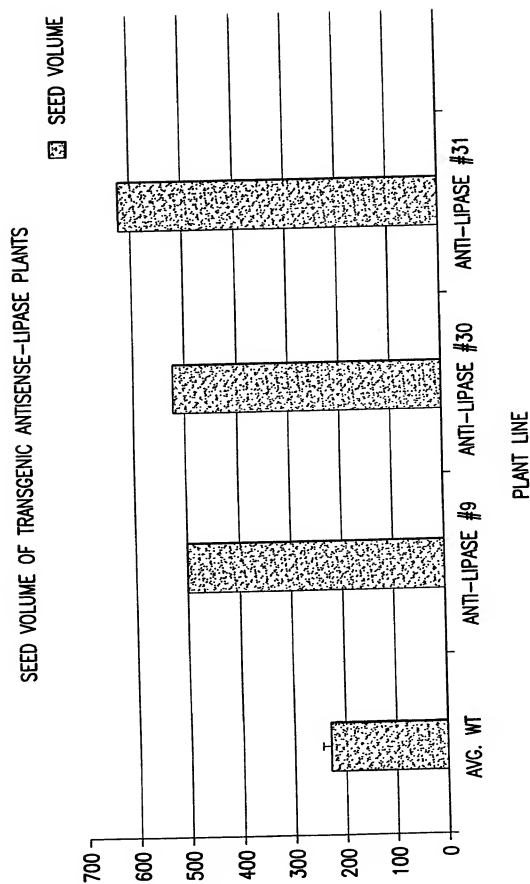


FIG. 20

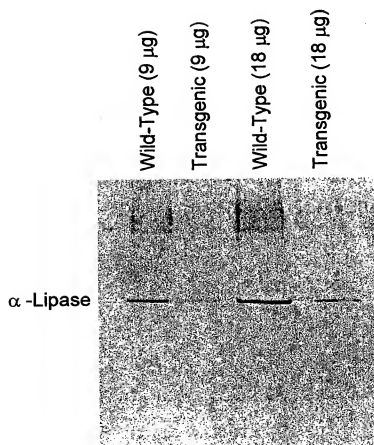


FIG.21

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